KONICA MINOLTA

Display Color Analyzer CA-410

Small Spot Probes

Long Working Distance Probe

CA-VP402 CA-VP404 CA-VP410T

New probe variations for the popular Display Color Analyzer CA-410 to meet ever-diversifying display measurement needs.

Both PC Software for Color Analyzer CA-S40 and SDK for Color Analyzer CA-SDK2 can control all CA-410 probes, making switching between probes simple.

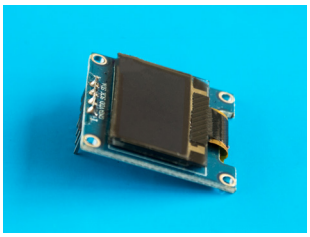
The Standard in Measuring Color & Light

Giving Shape to Ideas

Ø2 mm Small Spot Probe CA-VP402

A probe with a measuring area diameter of approximately Ø2 mm. The dedicated optical system and operation algorithm provides both guaranteed accuracy at ultra-low luminance and small measurement area. Suitable for applications requiring small-area measurements ranging from low-luminance measurements, such as for gamma adjustment of micro OLEDs, to high-speed, high-accuracy measurements.

* Since an imaging optical system is used, when measuring devices with large pixel pitch interference between the sensor fiber and the display pixels may adversely affect measurement repeatability.
* Zero calibration time and low-luminance integration time is longer than conventional CA-410 probes.



Micro OLED

Main specifications
Measurement area: Ø2.1 mm
Acceptance angle: ±10°
Accuracy guaranteed measurement distance: 28 mm ± 2 mm
Accuracy guaranteed measurement luminance range (Luminance measurements) : 0.002 to 6,000 cd/m^2
(Chromaticity measurements) : 0.02 to 6,000 cd/m^2

Ø4 mm Small Spot Probe CA-VP404

A probe with a measuring area diameter of Ø4 mm. Guaranteed accuracy from 0.004 cd/m^2 enables high-speed, high-accuracy measurements of small areas such as smartwatch OLEDs, smartphone edges, small APL (average pixel level) windows, etc.

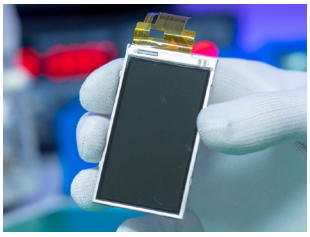
Smartwatch

Main specifications
Measurement area: Ø4 mm
Acceptance angle: ±8.5°
Accuracy guaranteed measurement distance: 30 mm ± 2 mm
Accuracy guaranteed measurement luminance range
(Luminance measurements) : 0.004 to 12,000 cd/m^2
(Chromaticity measurements) : 0.04 to 12,000 cd/m^2

Ø10 mm LWD (200 mm) Probe CA-VP410T

A long-working-distance model with a measurement distance of 200 mm. The optical system is not easily affected by display directionality, making it suitable for multi-angle measurement of in-vehicle displays or smartphone OLEDs, or evaluation of the angular characteristics of curved displays. In addition, the long working distance allows it to be used in applications where it is necessary to have some distance from the measurement subject, such as for avoiding collisions with the measurement subject on automatic measurement systems.

In-vehicle display



Smartphone OLED

Main specifications
Measurement area: Ø10 mm
Acceptance angle: ±4°
Accuracy guaranteed measurement distance: 200 mm ± 2 mm
Accuracy guaranteed measurement luminance range
(Luminance measurements) : 0.004 to 12,000 cd/m^2
(Chromaticity measurements) : 0.04 to 12,000 cd/m^2

*Refer to the Main specifications for detailed specifications of each probe.
https://www.konicaminolta.com/instruments/download/catalog/display/pdf/ca-410_probe_catalog_eng.pdf

SAFETY PRECAUTIONS

For correct use and for your safety, be sure to read the instruction manual before using the instrument.
● Always connect the instrument to the specified power supply voltage. Improper connection may cause a fire or electric shock.

ISO Certifications of KONICA MINOLTA, Inc., Sakai Site

ISO 9001
JQA-QMA15888
Design, development, manufacture/ manufacturing management, calibration, and service of measuring instruments

ISO 14001
JQA-E-80027
Design, development, manufacture, service and sales of measuring instruments

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https://konicaminolta.com/instruments/network

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